

ISO 17104:2026-02 (E)

Rotary tools for threaded fasteners - Impulse and impulsing tools - Performance test method

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms, definitions and symbols	1
4 Method for measurement of performance	5
4.1 General rules for performance tests	5
4.1.1 Measurements	5
4.1.2 Ambient conditions	5
4.1.3 Test installation	6
4.1.4 Test tool	6
4.1.5 Test tool condition	6
4.1.6 Power media	6
4.2 Test fixtures	8
4.2.1 General	8
4.2.2 Test joint	9
4.2.3 Measuring devices	12
4.3 Test method	13
4.3.1 Overview of test procedure	13
4.3.2 Determination of torque factor, K	14
4.3.3 Calculation of mean torque factor, \bar{K}	16
4.3.4 Reconfirmation of mean torque factor, \bar{K}	17
4.3.5 Performance test	17
5 Comparison with built-in torque measurement systems	18
6 Evaluation of test results	18
6.1 Correlated torque scatter	18
6.2 Correlated torque scatter over a defined range of torque adjustment	19
7 Presentation of test results	19
7.1 Test report	19
Annex A (informative) Explanation and justification of the method	21
Annex B (informative) Explanation of electric impulsing tools	25
Annex C (informative) Non-normative use of the methods defined in this document	26
Annex D (informative) Examples of test report and worksheet for tool performance test	28
Annex E (informative) Non-normative use of the methods defined in this document	32
Bibliography	37